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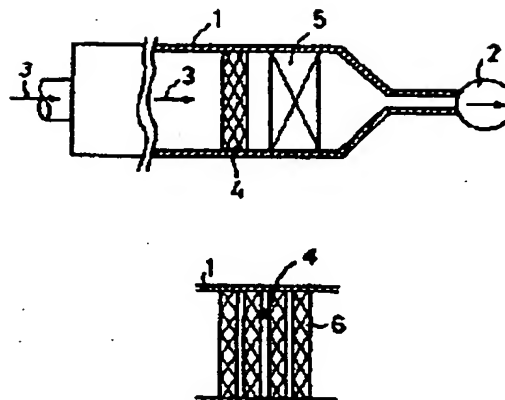
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TITLE : DEVICE FOR REMOVING
RADIOACTIVE RUTHENIUM



ABSTRACT : **PURPOSE:** To effectively remove ruthenium in the form of gas by providing a polyethylene-filled body at the front stage of a high-performance particle (HEPA) filter, and converting the ruthenium in the form of gas into particles.

CONSTITUTION: A blower 2 is provided at the rear stage of a hood 1. A polyethylene-filled body 4 and a HEPA filter 5 are attached to the respective portions of the hood 1 from the upper side of the hood from which is waste gas 3 containing radioactive ruthenium is allowed to flow. The polyethylene-filled body 4 is formed by arranging bundles 6 of several polyethylene films in parallel to one another at several stages, the polyethylene films being stacked one after another. The waste gas 3 is allowed to pass through the polyethylene-filled body 4 and the HEPA filter 5 and discharged to the environment. Meanwhile, the radioactive ruthenium contained in the waste gas 3 reacts with the polyethylene-filled body 4 and converts into particles, whereby the effect of removing the ruthenium through the HEPA filter 5 is increased.

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